

L 2968-66
ACCESSION NR: AP5026355

Moskovskiy rayon and the chief engineer in construction of the Bobrikovsk (now Novomoskovsk) hydroelectric station. In connection with the reorganization of construction in 1931, Teleshev was transferred to Energostroy, first as chief engineer of the Moscow division and then as deputy chief of the design administration of Energostroy (now Teploelektroproyekt). In 1934, Teleshev took the post of assistant director of the Scientific Section of the Power Engineering Institute imeni Krzhizhanovskiy of the Academy of Sciences USSR and worked as the immediate assistant to Academician G. M. Krzhizhanovskiy in directing the Institute until 1946. Starting in 1923, he did scientific research work first at the Moscow Institute of Mechanics im. Lomonosov and then at the Institute of National Economy im. Plekhanov. After the founding of the Moscow Power Engineering Institute in 1930, Teleshev transferred to that Institute and worked there until 1940. Here he was Lecturer of the Department of "Central Electric Stations" and a professor in the department. He received his professorship in 1933. He was Dean of the Electric Power Department of the Institute from 1932-1935. In 1940, Teleshev was made director of the Department of Electrical Engineering of the Moscow Institute of Fine Chemical Technology where he remained until 1955. In 1944 he took part in organizing the Power Engineer-

Card 2/3

L 2968-66

ACCESSION NR: AP5026355

ing Department of the Moscow Institute of Engineering Economics im. S. Ordzhonikidze. From 1946 to the present, Teleshev has been director of the Department of "Electric Stations and Substations" and there have been two printings of his textbook on a course in "General Electrical Engineering." Teleshev has acted in a consultative capacity in plans for a great number of electrical stations and networks. He participated in the Government Consultation on the Dneper hydroelectric station im. V. I. Lenin. He has been an active member of the Scientific and Technical Society of the Power Industry for more than 20 years. He was chairman of the Moscow board of the Society from 1944 to 1951. For his service to the Society, he has been made a permanent member. In 1950 he was elected deputy in the Moscow Council of Deputies of the Workers. He has been decorated with the Order of Lenin, the Order of the Red Banner of Labor and with medals.

Orig. art. has: 1 figure.

ASSOCIATION: none

SUBMITTED: 00

NR REF SOV: 000

ENCL: 00

OTHER: 000

SUB CODE: EE

JPRS

leh
Card 3/3

ACC NR: AM5011709

MONOGRAPH

UR

Gruzdev, Igor' Aleksandrovich; Kadomskaya, Kira Panteleymonovna; Kuchumov, Leonid Aleksandrovich; Luginskiy, Yakov Natanovich; Portnoy, Marlen Gdalevich; Sokolov, Nikolay Ivanovich

160
Using analog computers in power systems; methods for analyzing transient processes (Primeneniye analogovykh vychislitel'nykh mashin v energeticheskikh sistemakh; metody issledovaniy perekhodnykh protsessov) Moscow, Izd-vo "Energiya", 1964. 407 p. illus., biblio. 5,000 copies printed.

TOPIC TAGS: analog computer, electromagnetism, electric engineering, electric power engineering, mathematic model, computer circuit, computer application

PURPOSE AND COVERAGE: This book is concerned with the application of analog computers to the study of electromechanical and electromagnetic transient processes in power systems. It presents methods for mathematical modeling, circuits for special-purpose devices used in general-purpose computer studies, and examples of completed investigations. The book is intended for engineers at scientific research and planning institutes, workers at power systems, and students taking advanced courses in electric power and electromechanics.

TABLE OF CONTENTS [abridged];

Foreword - - 3

Card 1/2

UDC: 681.142.33/.34:620.9

ACC NR: AM5011709

- Ch. I. Basic decision elements of analog computers - - 5
- Ch. II. Special-purpose units of analog computers - - 62
- Ch. III. Equations of the basic elements of an electric system and mathematical modeling - - 106
- Ch. IV. Modeling of a complex system containing several generators and loads - - 171
- Ch. V. Analog-computer solutions of equations of transient processes in excitation systems and controllers of primary motor generators - - 209
- Ch. VI. Analog computer study of transient processes in power systems - - 260
- Ch. VII. Application of analog computers to the calculation of system-generated overvoltage in electric systems - - 346

SUB CODE: 09,13,20/ SUBM DATE: 31Oct64/ SOV REF: 083/ OTH REF: 001

Card 2/2

ACC NR: AP7002308

SOURCE CODE: 01/0128/66/000/006/0128/0128

AUTHOR: Borchaninov, G. S.; Sokolov, N. I.; Vasil'yev, A. A.; Tarasov, V. I.;
Grudinskiy, P. G.; Ul'yanov, S. A.; Kuvshinskiy, N. N.; Fedoseyev, A. M.

ORG: none

TITLE: L. N. Baptidanov (Deceased)

SOURCE: IVUZ. Energetika, no. 6, 1966, 128

TOPIC TAGS: electric engineering personnel, academic personnel

ABSTRACT: L. N. Baptidanov died January 13, 1966. His working life was primarily dedicated to training of electrical engineering specialists. Soon after graduating from the Electrical Industrial Faculty of the Moscow Institute of the National Economy, Baptidanov began teaching at the Moscow Power Technical School. In 1934, Baptidanov began teaching at the All Union Correspondence Industrial Institute, then in 1946 he shifted to the All Union Industrial Academy of Machine Building, where he worked in the chair of electrical power stations. He was responsible for the creation of a model electrical station in the electrical stations chair of the Moscow Power Institute. Baptidanov was also very active as an author, writing such works as "Industrial Enterprise Substations", "Electrical Equipment of Electrical Stations and Substations", etc. From 1943 to 1946, Baptidanov worked as the Scientific editor for Electrical engineering at the State Power Literature Publishing House. [JPRS: 37,564]

SUB CODE: 09 / SUBM DATE: none

Card 1/1

ACC NR:

AP7006045

SOURCE CODE: UR/0105/66/000/009/0019/0024

AUTHOR: Sokolov, N. I. (Doctor of technical sciences; Moscow); Kozlova, V. F. (Engineer; Moscow); Khvoshchinskaya, Z. G. (Engineer; Moscow)

ORG: none

TITLE: Problems of stability of parallel operation of hydroelectric stations with capsule generators

SOURCE: Elektrichestvo, no. 9, 1966, 19-24

TOPIC TAGS: hydroelectric power plant, electric generator, circuit breaker, electric relay

ABSTRACT: Capsule generators, single horizontal shaft hydraulic turbines and generators placed in metal capsules, have poorer electromechanical characteristics than vertical hydraulic generators of the same unit power due to hydraulic and mechanical considerations. This article analyzes problems of static and dynamic stability of hydroelectric stations with capsule generators, problems of the selection of the most effective systems for excitation and automatic control of excitation. The installation of capsule generators considerably hinders provision of stability of parallel operation of stations and reduces the overall level of stability of combined power systems. All known methods of increasing stability are as yet little effective in this case. The most effective, though very expensive, method for increasing stability is the usage of controlled synchronous compensators. The best compromise for solving the entire problem is the usage of high speed circuit breakers and relays with over-all operating times of under 0.06 seconds. Orig. art. has: 6 figures. [JPRS:

39,548]

SUB CODE: 10, 09

Cord 1/

UDC: 621.311.2.016.35

09270839

ACC NR: A7007395

SOURCE CODE: UR/0104/66/000/006/0095/0096

26

AUTHOR: Chuprakov, N. M.; Borovoy, A. A.; Postnikov, N. A.; Malychev, A. A.;
Magidson, E. M.; Sin'chugov, F. I.; Zeylidsen, Ye. D.; Barchaninov, G. S.;
Yermolenko, V. M.; Vasil'yev, A. A.; Sokolov, N. I.; Ul'yanov, A. S.;
Fedoseyev, A. M.; Sarkisov, M. A.; Rokotyan, S. S.; Azar'yev, D. I.; Arson,
G. S.; Dubinskiy, L. A.; Zhulin, I. V.; Kolpakova, A. I.; Antoshin, N. N.
Krikunchik, A. D.; Kuchkin, M. D.; Preobrazhenskiy, N. Ye.; Reut, M. A.;
Khayfits, M. E.; Sharov, A. N.; Yakub, Yu. A.; Gorbunov, N. I.; Shurmukhin,
V. A.; Beschinskiy, A. A.

ORG: none

TITLE: Boris Sergeyovich Uspenskiy (on his 60th birthday)

SOURCE: Elektricheskiye stantsii, no. 8, 1966, 95-96

TOPIC TAGS: hydroelectric power plant, electric engineering personnel.

SUB CODE: 10

ABSTRACT: B. S. Uspenskiy was born in June 1906. He graduated from
the State Electric Machine Building Institute in 1928 as an electric
installation engineer. He worked in the State Electro-Technical Trust
for four years, then in the All-Union ElectroTechnical Union, where he
planned power construction units. Plans which he made up at that time
for the electrical portion of electrical stations and sub-stations are
still being used. He was involved in planning and installation of the
electrical portion of hydro-electric power stations and powerful pumping
stations in the Moscow-Volga Canal. During the war, he was in charge in
installation of the Krasnogorskaya Heat and Electric Power Station, the
planning of the Urals Hydro-Electric Power Station and other projects. He

Card 1/2

09281534

SELIMOV, Midat Abdurakhmanovich. Prinimal uchastiye GORDON, Ya.Ya.,
prof.; SOKOLOV, N.I., red.; MATVEYEVA, M.M., tekhn.red.

[Ways of eliminating hydrophobia] Puti likvidatsii gidro-
fobii. Moskva, Medgiz, 1963. 293 p. (MIRA 17:2)



MEL'NIKOV, Nikolay Ivanovich; SOKOLOV, N.I., red.; PETROVA, N.K.,
tekhn. red.

[Pathogens of suppurative diseases and their association] Voz-
buditeli gnoinykh zabolevanii i ikh assotsiatsii. Moskva, Medgiz,
1962. 263 p. (MIRA 15:9)
(SUPPURATION) (BACTERIA, PATHOGENIC)

REZNIKOVA, Lyusi Solomonovna; EPSHTEYN-LITVAK, Rakhil' Veniaminovna;
LEVI, Moisey Iosifovich; SOKOLOV, N.I., red.; LYUDKOVSKAYA,
N.I., tekhn. red.

[Serological methodology of research in the diagnosis of com-
municable diseases] Serologicheskie metody issledovaniia pri
diagnostike infektsionnykh boleznei. Moskva, Medgiz, 1962.
370 p. (MIRA 16:3)
(SERUM DIAGNOSIS) (COMMUNICABLE DISEASES)

MATVEYEV, Konstantin Ivanovich; SOKOLOV, N.I., red.; SENCHILO, K.S, tekhn.
red.

[Epidemiology and prevention of tetanus] Epidemiologiya i pro-
filaktika stolbniaka. Moskva, Gos. izd-vo med. lit-ry Medgiz,
1960. 337 p. (MIRA 14:7)
(TETANUS)

1. SOKOLOV, N. I., PANINA, A. V.

2. USSR (600)

4. Sand, Foundry

7. Reconditioning used molding sand by separation in a stream of air. Lit. proiz.
no. 9, '52.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

SOLOLOV, N.K.; KAPKO, P.S., kand.sel'skokhozyaystvennykh nauk;
MALYUGINA, Ye.A., nauchnyy sotrudnik

Valuable mineral feed for swine. Svinovodstvo 13 no.11:26-28
N '59. (MIRA 13:2)

1. Glavnyy zootekhnik Krasnodarskogo plodoovoshchnogo sovkhoza
No.2 (for Sokolov). 2. Krasnodarskiy nauchno-issledovatel'skiy
institut sel'skogo khozyaystva.
(Swine--Feeding and feeds) (Minerals in food)
(Sugar industry--By-products)

SOKOLOV, N.L.; SMUROV, A.M.

Power parameters for the extrusion of rod-type forgings with
various shapes of flanges. Avt.prom. 29 no.12:31-34 D '63.
(MIRA 17:4)

1. Nauchno-issledovatel'skiy tekhnologicheskii institut
avtomobil'noy promyshlennosti.

SOLOLOV, N. L.

USSR/Miscellaneous - Tools and dies

Card 1/1 : Pub. 12 - 7/12

Authors : Sokolov, N. L.

Title : Modification of swage die insets (chucks)

Periodical : Avt. trakt. prom. 4, 24-27, Apr 1954

Abstract : Modifications of die insets (changes in inset sizes and configurations), for the purpose of economizing on expensive alloyed steel used in the manufacture of dies, are described. The changes were first introduced at the Low-Liter Capacity Auto Plant in Moscow and the gains derived from these modifications, are listed. Drawings.

Institution : The Low-Liter Capacity Auto Plant, Moscow

Submitted :

SOKOLOV, Nikolay Leonidovich; SAMOKHOTSKIIY, A.I., inzh., ved. red.;
L'VOV, D.S., kand. tekhn. nauk, red.; SOROKINA, T.M.,
tekhn. red.

[Economy of die steel in drop forging with mechanical forging presses] Ekonomiya shtampovoi stali pri shtampovke na krivoshipnykh kovochno-shtampovochnykh pressakh. Moskva, Filial Vses. in-ta nauchn. i tekhn. informatsii, 1958. 11 p. (Peredovoi nauchno-tekhnikeskii i proizvodstvennyi opyt. Tema 5. No.M-58-202/11) (Forging) (MIRA 16:3)
(Dies (Metalworking))--Maintenance and repair

SOKOLOV, N.L.; KUZNETSOVA, M.I., red.; BONDAREV, M.S., tekhn. red.

[Hot extrusion]Goriachaia shtampovka vydavlivaniem. Mo-
skva, TSINTIMASh. 50 p. (MIRA 16:4)
(Extrusion (Metals))

SOV/229~

SOKOLOV, N. L.
25(1) p 2

PHASE I BOOK EXPLOITATION

Moskovskiy dom nauchno-tekhnicheskoy progagandy imeni F.E. Dzerzhin-
skogo

Shtampovka vydavlivaniyem; proizvodstvennyy opyt (Impact Extrusion;
Industrial Practice) Moscow, 1958. 37 p. (Series: Peredovoy
opyt proizvodstva. Seriya "Tekhnologiya mashinostroyeniya," vyp.
8. Obrabotka metallov davleniyem) 4,000 copies printed.

Additional Sponsoring Agency: Obshchestvo po rasprostraneniye politi-
cheskikh i nauchnykh znaniy RSFSR.

Ed.: A.V. Rebel'skiy; Tech. Ed.: R.A. Sukhareva.

PURPOSE: This booklet is intended for engineers and technicians
occupied with problems of die forging, upsetting, and impact extru-
sion.

COVERAGE: The four articles of the booklet report on experience
gained at four plants in the field of impact extrusion. No person-
alities are mentioned. There are no references.

Card 1/3

SOV/2290

Impact Extrusion; Industrial Practice

TABLE OF CONTENTS:

Kozlov, I.N. Die Forging and Impact Extrusion From Ball-shaped Blanks
(Experience of the Pervyy gosudarstvennyy podshipnikovyy zavod [First
State Bearing Plant]) 3

The advantages of using ball-shaped blanks for impact extrusion
(hot or cold) of ring-and cup-shaped steel parts are stressed,
and arrangement of dies, materials used and technique are dis-
cussed.

Savin, G.P. Fabrication of Automobile Engine Valves by Direct Impact
Extrusion With a Single Blow (Experience of the Gor'kiy avtozavod
[Gor'kiy Automobile Plant]) 19

The technique of the process and the dies and materials used
are described. The relationship between the speed of the ram
and the speed of the flow of material is discussed.

Sokolov, N.L. Making Steel Forgings by Hot Impact Extrusion
(Experience of the Moskovskiy zavod malolitrzhnykh avtomobiley
[Moscow Small Automobile Plant]) 26

The impact extrusion technique for making small, medium, and
large forgings and the design of dies are described. Sugges-

Card 2/3

[illegible]

1. 1941, May: Antagonists (Glaucoma Press-Jordan) Moscow, Lashin, 1941.
2. 1941, 7, 10 copies printed.

Author: Golovnev, I.P., Candidate of Technical Sciences;
 Editors: Stetsakov, G.I., Engineer, and Bondarova, N.S., Engineer;
 Reviewer: Rodionov, M.I., Engineer; Ed. of Publishing
 House: Gerasimov, N.A.; Tech. Ed.: Gerasimova, G.I.; Managing Ed. for
 literature on the technology of machine building (Leninrad Division
 of Machine): Kabanov, Ye.P., Engineer.

Abstract: The book is intended for engineering personnel and it may be useful to students of various technical schools.

00 0011: The book presents the processes of press forming without flash in closed dies from steel and nonferrous alloys later called

enc 1/2

Flashless Press-forming

892

flashless press-forming. The following suggestions for mastering this process are made: technical and economical indices, rules for designing parts to be made by this process, determining heating regimes preventing scale formation, methods of designing and cutting blanks, determination of capacity of forging equipment, design and calculation of dies, and reference tables. Typical production examples are included (with calculation and drawings for dies) and new data on flashless press forming techniques abroad are presented. There are 32 references of which 21 are Soviet and 11 are English.

Card 2/2

SOKOLOV, N.L.

25(2), (7)

p. 3

PHASE I BOOK EXPLOITATION

SOV/1437

Spravochnik metallista v pyati tomakh, t. 4, (Metals Engineering Handbook in Five Volumes, Vol 4) Moscow, Mashgiz, 1958. 778 p. 50,000 copies printed.

Ed. (Title page): A.N. Malov, Candidate of Technical Sciences; Ed. (Inside book): V.I. Krylov, Engineer; Tech. Ed.: T.F. Sokolova; Editorial Board: N.S. Acherkan (Chairman and Chief Ed.), Doctor of Technical Sciences, Professor; V.S. Vladislavlev, Professor (Deceased); A.N. Malov, Candidate of Technical Sciences; S.N. Pozdnyakov; A. Ya. Rostovkh; G.B. Stolbin; and S.A. Chernavskiy; Managing Ed. for Reference Literature: V.I. Krylov, Engineer.

PURPOSE: This handbook may be useful to technicians and engineers working in the field of machine design and production.

COVERAGE: This volume covers the following topics: casting, forging, pressing, stamping, welding, electric methods of machining, and metal cutting. Recently developed electrical methods of machining which are not yet used in production are described; viz., the so-called "electropulse" and "electrohydraulic" methods. No personalities are mentioned. There are 79 Soviet references.

Card 1/9

Metals Engineering Handbook (Cont.)

SOV/1437

Heating metal before forging and stamping (M.A. Kasenkov, Candidate of Technical Sciences)	62
General information	62
Cooling of forgings	70
Heating equipment for forging	73
Open die forging(V.B. Pokrovskiy, Engineer)	78
Tools for open die forging	88
Open die forging technique	93
Forging in blacksmith closed dies	105
Combined smith' and drop forging by the method of A.V. Potekhin	108
Hammer forging (Yu.V. Shukov, Candidate of Technical Sciences)	109
Hot forging on crank presses (Yu. V.Shukhov, Candidate of Technical Sciences, and N.L. Sokolov, Engineer)	135
Forging on percussion presses	154
Forging on horizontal machines	155
Trimming, piercing, straightening and sizing of forgings (N.L. Sokolov, Engineer)	175
Trimming and piercing of forgings	175
Straightening of forgings	179
Sizing of forgings	180

Card 3/9

Metals Engineering Handbook (Cont.)

SOV/1437

[Progressive] drawing from strip	247
Geometry of working portions of a stamping die	249
Punching, piercing, notching, and cutting-off operations	249
Trimming	252
Bending	254
Drawing without thinning	258
Cold three-dimensional stamping (S.M. Polyak, Candidate of Technical Sciences)	260
Cold upsetting (V.A. Popov, Candidate of Technical Sciences)	269
Materials for cold upsetting	269
Tools	271
Typical production methods of cold upsetting	272
IV. Welding (K.P. Imshennik, Candidate of Technical Sciences)	278
General information	278
Manual arc welding of constructional steels	283
Welding equipment	286
Spot and seam welding of sheet metal	290
Cast-iron welding	293

Card 5/9

Metals Engineering Handbook (Cont.)

· SOV/1437

VI. Cutting Regimes (P.P. Grudov [Deceased], Ye.G. Annenkova, and S.A. Rubinshteyn, Candidates of Technical Sciences)	
General information	357
Elements of cutting process	359
Turning operations	359
Planing and shaping	360
Drilling and enlarging	385
Countersinking and reaming	386
Broaching	397
Milling	403
Cutting with disc-type saws	407
Cutting with powered hack-saws and with band-saws	419
Thread cutting	422
Tooth-cutting operations	423
Grinding operations	432
	452
VII. Wear of Cutting Tools (Ye.G. Annenkova and S.A. Rubinshteyn, Candidates of Technical Sciences)	
Wear and life of single-point tools	460
	460

Card 7/9

Metals Engineering Handbook (Cont.)

SOV/1437

X. Bench Work (A.N. Malov, Candidate of Technical Sciences)	
Chipping	670
Sawing (A.N. Polyanskiy, Candidate of Technical Sciences)	670
Filing (A.N. Polyanskiy, Candidate of Technical Sciences)	673
Scraping (A.N. Malov, Candidate of Technical Sciences)	674
Layout (A.N. Malov, Candidate of Technical Sciences)	700
Mechanic's hand tools for assembling (A.N. Malov, Candidate of Technical Sciences)	704
	707
XI. Metal Shearing (N.S. Degtyarenko, Candidate of Technical Sciences)	
General information	720
Tools for cutting-off operations in metal-cutting machine tools	720
Tools for cutting-off operations in presses and shears	722
	745
Alphabetical Subject Index (S.L. Khas'minskiy)	751

AVAILABLE: Library of Congress

Card 9/9

GO/gmp
5-25-59

AUTHOR: Sokolov, N.L., Engineer.

SOV/122-58-6-15/37

TITLE: The Hot Extrusion Forming of the King Pin of a Motor-car Front Suspension (Goryachaya shtampovka vydavlivaniyem stoyki peredney podveski avtomobilya)

PERIODICAL: Vestnik Mashinostroyeniya, 1958, Nr 6, pp 42 - 44(USSR)

ABSTRACT: The hot extrusion of the king pin component weighing 2.8 kg in 0.4% carbon 1% chromium steel is described. Drawings of the component and cross-sections of the die inserts and the die bodies are included. A 4 000-ton crankpress operating at 50 strokes/min is used to press the components out of blanks of 70 mm dia. and 150 mm length and 4.5 kg weight after high-frequency induction heating. The process consists of press extrusion in a closed die, followed by stamping in an open die. There are 5 figures.

Card 1/1 1. Metals--Extrusion

SOKOLOV, Nikolay Leonidovich, inzh.; KAMNEV, P.V., kand. tekhn. nauk, dots.,
red.; SLITSKAYA, I.M., red.; FOMICHEV, A.G., red. izd-va; BELOGUROVA,
I.A. tekhn. red.

[Modern processes of hot stamping on forging and stamping crank presses; survey of advanced practice in the automobile industry] Progressivnye protsessy goriachei shtampovki na krivoshipnykh kovochno-shtampovochnykh pressakh; obzor peredovogo opyta avtomobil'noi promyshlennosti. Pod red. P.V.Kamneva. Leningrad. Pt.1. 1961. 52 p. (MIRA 14:7)
Pt.2. 1961. 55 p.

(Sheet-metal work)

MOROZOV, A.P., kand. tekhn. nauk; SOKOLOV, N.L., inzh., retsenzent;

[Making dies for forging] Izgotovlenie shtampov dlia go-
riachei shtampovki. Moskva, Mashinostroenie, 1965. 183 p.
(MIRA 18:5)

SOKOLOV, N. L.

Izucheniye povedeniia zhivotnykh v shkol'nom kurse biologii. (Opyty i nabliudeniia). (Studying the behavior of animals in the school course in biology (experiments and observations)). Moskva, Akad. ped. nauk RSFSR, 1953. 52 p. (Akad. ped. nauk RSFSR. Leningr. in-t pedagogiki. Zaoch. metod. konsul'tatsiia)

SO: Monthly List of Russian Accessions, Vol 7, No. 6, Sep. 1954

REYZIN, Eduard Karlovich; SOKOLOV, N.L., redaktor; PROFERANSOVA, N.V.,
redaktor; VOLKOV, A.P., tekhnicheskii redaktor

[Student assignments in beekeeping] Zaniatiia uchashchikhsia po
pchelovodstvu. Pod red. N.L.Sokolova. Moskva, Izd-vo Akademii
pedagog. nauk RSFSR, 1956. 35 p. (MLRA 9:11)
(Bee culture--Study and teaching)

SOKOLOV, Nikolay Leonidovich, kandidat biologicheskikh nauk; YELAGIN, V.D.,
redaktor; VOLKOV, A.P., tekhnicheskiiy redaktor

[Birds; data for the study of bird behavior] Ptitsy; materialy k
izucheniiu povedeniia ptits. Moskva, Izd-vo Akademii pedagog. nauk
RSFSR, 1956. 82 p. (MLRA 9:11)
(Birds)

SOKOLOV, Nikolay Leonidovich; PROFERANSOVA, N.V., red.; LAUT, V.G., tekhn.red.

[Experiments with animals in the schools nature nook] Opyt nad
zhivotnymi v ugolke zhivoi prirody. Moskva, Izd-vo Akad.pedagog.
nauk RSFSR, 1957. 77 p. (MIRA 11:1)

(Zoology--Study and teaching)

ANKER, N. N., Eng. Civil. Tech. Sci.

Dissertation: "Use of the Cast Concrete Piles Built in Place During Underpinning."
Issued: Order of the Labor Red Banner Construction Engineering Institute V. V. Kuybyshev,
10 Jun 47.

SC: Vechernyaya Moskva, Jun, 1947 (Project #17846)

SPASNOV, N. A. and SHALIKOV, S. A.

"Primeneniye metallicheskogo Shpunta Priustroystve
Elektrotekhnicheskikh Sooruzheniy"

Moskva: Mashinostroizdat 1949 160 pp.

SECRET, 1. .

The rifle - driver's order; textbook Moskva, Iskhizdat, 1949. 123 p. (12-03876)

TM 0.96

SOKOLCV, N. M.

Foundations

Use of grooved steel piling in building deep foundations for forge hammers. Stroi.prom. 29
No. 12 1951.

9. Monthly List of Russian Accessions, Library of Congress, August 195¹/₂, Uncl.

SOKOLOV, N.M., kandidat tekhnicheskikh nauk, nauchnyy redaktor.

[Reinforced concrete construction of skyscraper foundations]
Zhelezobetonnye raboty po ustroistvu fundamentov vysotnykh
zdanii. Moskva, Gos.izd-vo lit-ry po stroitel'stvu i arkhitekture.
1953. 85 p. (MLRA 7:3)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut organi-
zatsii i mekhanizatsii stroitel'stva.
(Reinforced concrete construction)
(Foundations)

SHVETS, V.B., mladshiy nauchnyy sotrudnik; ~~SOKOLOV, N.M.~~, kandidat tekhnicheskikh nauk, redaktor; PETROVA, V.V., redaktor izdatel'stva; MEL'NI-CHENKO, P.P., tekhnicheskiiy redaktor

[Instructions for surface compaction of soils for building and structure foundations by means of heavy tamping machines] Ukazaniia po poverkhnostnomu uplotneniiu gruntov v osnovanii zdaniy i sooruzhenii tiazhelymi trambovkami. U 136-55/Minstroiz. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1955. 15 p. (MIRA 9:10)

1. Russia(1923- U.S.S.R.) Ministerstvo stroitel'stva. Tekhnicheskoye upravleniye. 2. Vsesoyuznyy nauchno-issledovatel'skiy institut osnovaniy i fundamentov (for Shvets)
(Soil stabilization)

SOKOLOV, N.M., kandidat tekhnicheskikh nauk, redaktor; AZRILYANT, Ya.M.,
redaktor izdatel'stva; VOLKOV, V.S., tekhnicheskii redaktor

[Engineering instructions for construction and installation
work] Tekhnicheskie usloviia na proizvodstvo i priemku stroitel'-
nykh i montazhnykh rabot. Moskva, Gos. izd-vo lit-ry po stroit. i
arkhitekture. Section 10. [Special foundations] Ustroistvo spe-
tsial'nykh osnovanii. 1955. 90 p. (MIRA 9:9)

1. Russia (1923- U.S.S.R.) Gosudarstvennyi komitet po delam
stroitel'stva.
(Foundations)

SOKOLOV, Nikolay Mikhaylovich, kandidat tekhnicheskikh nauk; SHALYAPIN, R.S.,
kandidat tekhnicheskikh nauk, redaktor; POLIVANOV, S.I., redaktor
izdatel'stva; GUSEVA, S.S., tekhnicheskiy redaktor

[Manual on the preparation of rammed concrete piling] Rukovodstva
po izgotovleniiu nabivnykh betonnykh chastotrambovannykh svai.
Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 46 p.
(Concrete piling) (MLRA 9:10)

KURISK, N.M., kandidat tekhnicheskikh nauk; SOKOLOV, N.M., kandidat tekhnicheskikh nauk; KOPCHUGOV, V.A., kandidat tekhnicheskikh nauk; ZAMORIN, P.K., kandidat tekhnicheskikh nauk; SOROCHAN, Ye.A., inzhener; GAROVNIKOV, V.I., inzhener, nauchnyy redaktor; BEGAK, B.A., redaktor izdatel'stva; GUSEVA, S.S., tekhnicheskiy redaktor

[Use of precast foundations in building construction] Primenenie sbornyykh fundamentov v stroitel'stve zdaniy. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 77 p. (MLRA 10:1)

SOLOLOV, N.M., kandidat tekhnicheskikh nauk.

Building bridge supports across the Yangtze River. Nov.tekh.1
pered.op.v stroi. 18 no.6:26-29 Je '56. (MLRA 9:8)
(Yangtze River--Bridge construction)

SOROCHAN, Ye.A., kand.tekhn.nauk; SOKOLOV, N.M., kand.tekhn.nauk.
Prinimali uchastiye: SEREBRYANYI, R.V.; POL'SHIN, D.Ye.,
kand.tekhn.nauk. MUNITS, A.P., red.izd-va; BOROVNEV, N.K.,
tekhn.red.

[Instructions for using precast footings] Ukazaniia po
primeneniui sbornykh lentochnykh fundamentov. Moskva, Gos.
izd-vo lit-ry po stroit., arkhitekt. i stroit.materialam, 1959.
28 p. (MIRA 12:10)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam
stroitel'stva. 2. Nauchno-issledovatel'skiy institut osnovaniy
i podzemnykh sooruzheniy Akademii stroitel'stva i arkhitektury
SSSR (for Sorochan, Sokolov).
(Foundations) (Precast concrete construction)

TSYTOVICH, N.A., prof.; VESELOV, V.A., dotsent, kand.tekhn.nauk; KUZ'MIN, P.G., dotsent, kand.tekhn.nauk; FERRONSKIY, V.I., kand.tekhn.nauk, assistant; PITYUGIN, A.I., kand.tekhn.nauk, assistant; LUGA, A.A., kand.tekhn.nauk, starshiy nauchnyy sotrudnik; SOKOLOV, N.M., kand.tekhn.nauk, starshiy nauchnyy sotrudnik; SAVINOV, O.A., doktor tekhn.nauk; KOSTERIN, E.V., kand.tekhn.nauk, assistant. Primali uchastiye: AKINSHIN, V.M.; MARTSENYUK, V.I., starshiy laborant. VASIL'YEV, B.D., prof., doktor tekhn.nauk, retsenzent; BEREZANTSEV, V.G., prof., doktor tekhn.nauk, retsenzent; LAGAR'KOV, N.I., inzh., nauchnyy red.; SMIRNOVA, A.P., red.izd-va; NAUMOVA, G.D., tekhn.red.

[Foundation engineering] Osnovaniia i fundamenty. Pod red. N.A. Tsytoicha. Moskva, Gos.izd-vo lit-ry po stroit., arkhitekt. i stroit.materialam, 1959. 452 p. (MIRA 13:5)

1. Chlen-korrespondent AN SSSR (for Tsytoich). 2. Zaveduyushchiy laboratoriyey kafedry osnovaniy i fundamentov Moskovskogo inzhenerno-stroitel'nogo instituta imeni V.V.Kuybysheva (for Akinshin).
 3. Zaveduyushchiy kafedroy osnovaniy i fundamentov Leningradskogo instituta inzhenerov zheleznodorozhnogo transporta imeni akademika V.N.Obratsova (for Berezantsev).
- (Foundations) (Soil mechanics)

SOKOLOV, N.M.; TOKAR', R.A.

Industrial methods of constructing foundation beds and foundations.
Osn., fund. i mekh. grun. no.2:1-5 '59. (MIRA 12:7)
(Foundations) (Soil stabilization)

SOKOLOV, N.M., kand. tekhn. nauk

Construction of deep foundations. Nov. tekhn. mont. i spets. rab.
v stroi. 21:30-32 Je '59. (MIRA 12:8)
(Foundations) (Piling (Civil engineering))

SOKOLOV, N.M., kand.tekhn.nauk

Modern methods for constructing deep foundations of large diameter.
[T^rudy] NIIOSP no.40:4-13 '59. (MIRA 13:9)

(Foundations)

SOKOLOV, N.M.; KRUTOV, V.I.

Information. Osn.fund.i mekh.grun. 2 no.2:31 '60. (MIRA 13:8)
(Foundations)

SOKOLOV, N. M., Doc Tech Sci -- "Report on ~~the~~ tasks *for*
studies, *development* ~~elaboration~~ and introduction of foundation-building
methods." Mos, 1961. (Acad of *Construction* ~~Build~~ and Architec *ture* USSR)
(KL, 8-61, 240)

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BOKUYANOV, A.I., inzh., red.; SOKOLOV, N.M., doktor tekhn. nauk, red;
TIKUNOV, P.R., kand. tekhnicheskikh nauk, red.; STRASHNYKH,
V.P., red. 1zd-va; NAUMOVA, G.D., tekhn. red.

[Construction specifications and regulations] Stroitel'nye
normy i pravila. Moskva, Gosstroizdat. Pt.3. Sec.B. ch.6.
[Foundations and supports of piling and shells, pile walls;
regulations for production and acceptance of work] Fundamen-
ty i opory iz svai i obolochek, shpuntovye ograzhdenia;
pravila proizvodstva i priemki rabot (SNiP III-B. 6-62).
1963. 36 p. (MIRA 16:9)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam
stroitel'stva. 2. Gosudarstvennyy komitet Soveta Ministrov
SSSR po delam stroitel'stva (for Bokunayayev). Mezhdunarod-
stvennaya komissiya po peresmotru Stroitel'nykh norm i pravil
Akademii stroitel'stva i arkhitektury SSSR (for Sokolov).
3. Nauchno-issledovatel'skiy institut osnovaniy Akademii
stroitel'stva i arkhitektury SSSR (for Tikunov).
(Piling (Civil engineering')) (Foundations)

SOKOLOV, N.M., doktor tekhn. nauk; MARIUPOL'SKIY, G.M., kand. tekhn. nauk; SOROCHAN, Ye.A., kand. tekhn. nauk; FUKSON, M.N., kand. tekhn. nauk; YEFREMOV, M.G., kand. tekhn. nauk, retsenzent; ZHURAVLEV, B.A., red.; SHEVCHENKO, T.N., tekhn. red.

[Foundation engineering] Osnovaniia i fundamenty. [By] N.M. Sokolov i dr. Moskva, Gosstroizdat, 1963. 295 p.
(MIRA 16:12)

(Foundations)

SOSHIN, A.V., doktor tekhn. nauk, prof.; SOKOLOV, N.M., doktor tekhn. nauk, prof.; TONCOV, A.S., kand. tekhn. nauk, dots.; BELINOVICH, M.S., inzh.; PETROV, M.S., kand. tekhn. nauk; LUPENKO, I.S., inzh., nauchn. red.

[Technology of the construction industry] Tekhnologiya stroitel'nogo proizvodstva. [By] A.V.Soshin i dr. Moskva, Stroizdat, 1964. 423 p. (MIRA 17:10)

ABELEV, Yu.M., doktor tekhn. nauk, prof.; ABELEV, M.Yu., inzh.;
BAKHOLDIN, B.V., kand. tekhn. nauk; BEREZANTSEV, V.G.,
doktor tekhn. nauk, prof.; VYALOV, S.S., doktor tekhn.
nauk; GODES, E.G., inzh.; GORBUNOV-POSADOV, M.I., doktor
tekhn. nauk, prof.; DALMATOV, B.I., doktor tekhn. nauk,
prof.; DOKUCHAYEV, V.V., kand. tekhn. nauk; KRUTOV, V.I.,
kand. tekhn. nauk; KSENOFONTOV, A.I., kand. tekhn. nauk;
MARIUPOL'SKIY, G.M., kand. tekhn. nauk; MORARESKUL, N.N.,
inzh.; PERLEY, Ye.M., inzh.; SAVINOV, O.A., doktor tekhn.
nauk; SIDOROV, N.N., kand. tekhn. nauk; SMORODINSKIY,
N.N., kand. tekhn. nauk; SOKOLOV, N.M., doktor tekhn. nauk;
FEDKIN, A.Ya., inzh.; SHASHKOV, S.A., kand. tekhn. nauk;
SHEYKOV, M.L., inzh.; YAROSHENKO, V.A., kand. tekhn. nauk,
[deceased]; KHALIZEV, Ye.P., kand. tekhn. nauk, nauchn. red.

[Manual for the designing of industrial plants, apartment
houses, and public buildings and structures; foundations]
Spravochnik proektirovshchika promyshlennykh, zhilykh i
obshchestvennykh zdaniy i sooruzheniy; osnovaniya i funda-
menty. Leningrad, Stroiizdat, 1964. 268 p.

(MIRA 18:1)

SOKOLOV, Nikolay Mikhaylovich, doktor tekhn. nauk; KRUTOV,
Vladimir Ivanovich, kand. tekhn. nauk; SOROGHAN,
Yevgeniy Andreyevich, kand. tekhn. nauk;

[Construction of large-panel buildings on sagging ground]
Stroitel'stvo krupnopanel'nykh zdaniy na prosadochnykh
gruntakh. Moskva, Stroiizdat, 1965. 191 p.
(MIRA 18:2)

SOKOLOV, Nikolay Mikhaylovich; MIRKIN, M.S., red.

[Using statistical control methods in introducing a flawless production system] Opyt ispol'zovaniia statisticheskikh metodov kontrolya pri vnedrenii sistemy bezdefektnogo izgotovleniia produktsii. Leningrad, 1965. 26 p.
(MIRA 18:7)

SOKOLOV, N.M.; SEVRTUGOVA, N.N.; ZHAVORONKOV, N.M.

Liquid-vapor equilibrium in the system acrylonitrile-acrolein
at various pressures. Zhur. fiz. khim. 39 no.4:1008-1012 Ap '65.
(MIRA 19:1)

1. Institut obshchey i neorganicheskoy khimii AN SSSR. Submitted
May 27, 1964.

27

CA

Bromometric methods for the determination of the iodine number of fats. S. V. Yushkevich and N. M. Sokolov. *Ber. Zentral. Wiss. Forschungsinst. Nahr.-Genussmittelind.* (U. S. S. R.) 1931, Beih. 3-25; *Chem. Zentr.* 1932, II, 1545; cf. C. A. 23, 4838; 24, 1237, 2023, 3064, 6044. —Iodine nos. detd. by the method of Kaufmann agree well with those detd. by the methods of Hübl and of Hanus. The Br soln. can be titrated either by the use of KI and thiosulfate or directly with arsenious acid. The latter method requires considerable skill and care for accurate results, while the former can be carried out without difficulty. Kahlbaum's methanol Br₂ soln. is quite stable; when com. CH₃OH distd. over lime is used, the Br₂ soln. can only be used after 2-3 weeks. CH₃OH soln. is to be preferred to acetic acid (glacial) for practical use. The reaction time of the Br₂ soln. does not affect the I no. obtained, but a large excess gives higher values. Variations in the I no. are less with the Hanus method.

M. G. Moore

ASB-354 METALLURGICAL LITERATURE CLASSIFICATION

SOGRICV, N. H.

USSR/ Chemistry Physical chemistry

Card : 1/1 Pub. 151 - 11/35

Authors : Sokolov, N. H.

Title : Investigation of the liquidus curve in binary systems formed by sodium salts of fatty acids with sodium nitrate and rhodanide

Periodical : Zhur. ob. khim. 24, Ed. 7, 1150 - 1156, July 1954

Abstract : Liquidus curves of seventeen binary systems, composed of sodium salts of fatty acids and NaNO_3 and NaSCN , were investigated by the visual polythermal analysis method. Data on the homology and isomerism of fatty acid salts, are presented. The reasons for the changes in the chemical properties of fatty acid salts, which take place during the change in the number of C-atoms in the radical and during isomerization of the latter, are outlined. Thirteen references: 5 USSR, 5 German and 3 Italian. Tables, graphs.

Institution : Medical Institute, Smolensk

Submitted : February 9, 1954

SOKOLOV, N.M.

USSR/Chemistry

Card 1/1 : Pub. 151 - 20/42

Authors : Sokolov, N. M.

Title : ~~Reaction of sodium salts of carboxylic acids in fusions~~
Reaction of sodium salts of carboxylic acids in fusions

Periodical : Zhur. ob. khim. 24/9, 1581-1593, Sep 1954

Abstract : The reaction of binary systems composed of sodium salts of carboxylic acid in fusions was investigated by the visual polythermal method. Certain laws pertaining to the effect produced by the paraffinic part of the molecule of the carboxylic acid salt on the processes occurring in salt fusions were established. The results obtained from the study of 28 binary systems, formed by sodium salts of carboxylic acids, are described. Nine references: 3-USSR; 5-German and 1-USA (1882-1947). Tables; graphs.

Institution : Medical Institute, Smolensk

Submitted : April 14, 1954

Sokolov, N.M.
USSR/Physical Chemistry - Thermodynamics, Thermochemistry, B-8
Equilibria, Physical-Chemical Analysis, Phase Transitions.

Abs Jour : Referat Zhur - Khimiya, No 1, 1958, 413

Author : N.M. Sokolov.

Inst : -

Title : Interaction of Sodium Salts of Aliphatic Acids with Sodium Nitrites in Melts.

Orig Pub : Zh. obshch. khimii, 1957, 27, No 4, 840-844

Abstract : 8 binary systems of salts of aliphatic acids containing various radicals and of NaNO_2 were studied by the visual-polythermal method. The capacity to produce complexes (systems with propionate and butyrate) appears with the rise of the number of carbon atoms in the radical, but at a further rise of the number of carbon atoms, this capacity disappears (system with valerate) and still further the salts loses the capacity to mix with the nitrite (system with capronate). Isomer radicals in salts do not promote

Card 1/2

AUTHORS: Sokolov, N. M.; Pochtakova, E. I. 79-28.5-64/69

TITLE: Reciprocally Irreversible System of Formates and Thiocyanates of Sodium and Potassium (Nestratimovzaimnaya sistema iz formiatov i rodanidov natriya i kaliya)

PERIODICAL: Zhurnal Obshchey Khimii, 1958 Vol 28, No 5, pp. 1391-1397 (USSR)

ABSTRACT: The investigation of the mutual systems of the salts of fatty acids and thiocyanates of sodium and potassium was carried out in order to determine the influence of the structure of the radical of the salt of a fatty acid on the melting processes of the salts. As one of the lateral lines in the phase diagram of the systems to be investigated served the binary system NaCNS-KCNS; the sodium and potassium salts of the homologous series of fatty acids with straight as well as with ramified chains of carbon atoms in the radical were taken as the other salts. In the present work the mutual system $\text{Na}, \text{K} \parallel \text{HCOO}, \text{CNS}$ was investigated. The sodium thiocyanate does not show polymorphic conversions

Card 1/3

Reciprocally Irreversible System of Formates and Thiocyanates of Sodium and Potassium 79-29-5-64/69

and remains unchanged up to 500°C (References 1,2). The potassium thiocyanate is thermally resistant up to 400°C and at 42.5°C suffers a polymorphous conversion (Reference 3). The sodium formate retains this property till 310°C (Reference 4); the polymorphous conversion (Reference 5) beginning at 242°C. At 370°C the potassium formate begins to decompose; at 470°C the decomposition takes place very quickly (Reference 6). On the heating of potassium formate by means of the differential thermocouple the polymorphous conversions for it were found at 60, 135 and 157°C (Reference 5). For all components of the given system the following data of the thermal effect are known (in k cal. equ.): NaCNS -40.36; KCNS -47.40; HCOONa -57.7; HCOOK -160.7 (Reference 7). Based on these data it can be expected that the equilibrium in this system is displaced in the direction to the pair HCOONa and KCNS: $\text{HCOOK} + \text{NaCNS} \rightarrow \text{HCOONa} + \text{KCNS} + 41.00 \text{ k cal.}$ Thus, by means of the visual-thermal method the binary system KCNS-HCOOK and the mutual system of formates and thiocyanates of potas.

Card 2/3

Reciprocally Irreversible System of Formates and Thiocya- 79-28-5-64/69
nates of Sodium and Potassium

sium and sodium were investigated for the first time.
There are 6 figures, 2 tables and 9 references, 6 of
which are Soviet.

ASSOCIATION: Smolenskiy meditsinskiy institut (Smolensk Medical
Institute)

SUBMITTED: March 5, 1957

Card 3/3

AUTHORS: Sokolov, N. M., Pochtakova, E. I.

79-26-5-65/69

TITLE: Reciprocally Irreversible System of Acetates and Propionates of Sodium and Potassium (Neobratimo-vzaimnaya sistema iz atsetatov i propionatov natriya i kaliya)

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 5, pp 1397-1404 (USSR)

ABSTRACT: The direction of conversions in ^{fusions} of sodium and potassium salts of organic acids has been little investigated hitherto. Among many ^{reciprocal} systems mentioned in references there are none consisting of organic acids. The present system is the first link in the chain of systems being used to determine the relation between the reaction direction and the structure of the salt radical. Among the investigated components of the system, potassium acetate was of prime consideration, while calcium acetate and the propionates were secondary. ^{As is known} the melting point of sodium acetate is between 319 and 337°C (References 1-7); ^{and} that of potassium acetate at 292-302°C (References 2,4,8-10); that of potassium propionate above 300°C (References 11). All

Card 1/3

The Mutually Irreversible System of Acetates and Propionates of Sodium and Potassium 79-28-5-65/69

salts melt without decomposition and are thermally unchangeable up to 390°C. Vorländer (Reference 12) described the polymorphous conversions of potassium and sodium propionate, however, not of the acetates of these metals. Also A. Baskov (Reference 2), by means of the differential thermal method of analysis, investigated the binary system of potassium and sodium acetates without finding polymorphism of the initial salts. G. G. Diogenov in the investigation of the mutual system of acetates and nitrates of lithium and sodium wrongly reports on the presence of two modifications α and β with respect to sodium acetate at 323°C, as the investigation by means of the differential thermocouple showed that no conversions take place at this temperature. One of the authors found by means of this method polymorphous conversions of sodium propionate at 77°, 195°, 217° and 287°C; of potassium propionate at 330°C. Thus the binary systems: $\text{CH}_3\text{COOK} \cdot \text{C}_2\text{H}_5\text{COOK}$; $\text{CH}_3\text{COONa} \cdot \text{C}_2\text{H}_5\text{COONa}$, and $\text{C}_2\text{H}_5\text{COONa} \cdot \text{C}_2\text{H}_5\text{COOK}$ were investigated for the first time. The binary system of acetates of sodium

Card 2/3

The Reciprocally Irreversible System of Acetates and
Propionates of Sodium and Potassium

79-28-5-65/69

and potassium in which complex formation was established
was repeated. The equilibrium in the system is displaced
in the direction to the highest melting components.
There are 8 figures, 2 tables and 13 references, 5 of
which are Soviet.

ASSOCIATION: Smolenskiy meditsinskiy institut (Smolensk Medical
Institute)

SUBMITTED: January 25, 1957

Card 3/3

AUTHORS: Tsindrik, N. M., Sokolov, N. N. 79-28-5-66/69

TITLE: The Triple Chemical System of Propionates and Nitrates of Lithium and Sodium (Troynaya vzaimnaya sistema iz propionatov i nitratov litiya i natriya)

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 5, pp. 1401 - 1410 (USSR)

ABSTRACT: The given system is one of a series of systems being investigated to establish the dependence of the direction of a reaction (between the lithium salt of an organic acid and sodium nitrate) on the length of the carbon chain of an acid radical. Earlier it was shown that in similar cases the equilibrium in formates and acetates is displaced in the direction to sodium nitrate and lithium salt of the fatty acid (References 1,2). In the acetate system the equilibrium is more displaced. The given system must explain whether the character of the displacement is subject to rules. Different from nitrates, the lithium- and sodium-propionates are little investigated. Thus, their melting points were determined for the first time only recently

Card 1/3

79-28-5-66/69

The Triple Reciprocal System of Propionates and Nitrates of Lithium and Sodium

(Reference 4). Vorlender (Forlender), without giving temperature data, is of the opinion that sodium propionates has polymorphous conversions. One of the authors found polymorphous conversions in sodium propionate at 77, 195, 217 and 287°C (Reference 3). All salts of the present system melt without decomposition. On overheating, the propionates become darker and decompose forming a gas. The mixture of nitrates and propionates is on this treatment accompanied by a flashing. Thus the two double systems $\text{LiNO}_3\text{-C}_2\text{H}_5\text{COOLi}$ and $\text{C}_2\text{H}_5\text{COONa-C}_2\text{H}_5\text{COOLi}$ were investigated. The melting diagram of the triple reciprocal system of propionates and nitrates of potassium and sodium was set up. The equilibrium in the triple system is displaced in the direction to the lithium propionate and sodium nitrate; when the carbon atoms are increased in the fatty acid radical, the displacement of equilibrium increases in systems composed of formates, acetates

Card 2/3

79-28-5-66/69

The Triple Reciprocal System of Propionates and Nitrates of Lithium and Sodium

or propionates with nitrates of lithium and sodium. There are 8 figures, 3 tables and 6 references, 5 of which are Soviet.

ASSOCIATION: Smolenskiy meditsinskiy institut (Smolensk Medical Institute)

SUBMITTED: March 27, 1957

Card 3/3

AUTHORS: Sokolov, N. M., Pochtakova, E. I. SOV/79-28-6-57/63

TITLE: Reversible Mutual System of Butyrates and Sodium- and Potassiumthiocyanates (Neobratimo-vzaimnaya sistema iz butiratov i rodanidov natriya i kaliya)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol. 28, Nr 6, pp. 1693-1700 (USSR)

ABSTRACT: The main task of the present paper was the investigation of the conversion process in the alloys of butyrates and thiocyanates of sodium and potassium. The given mutual system represents a certain part in the series of salts of thiocyanic acid and of fatty acids, the common aim of investigation consists in the determination of the dependence of the direction of reaction on the structure of the radical of the fatty acid (Ref 1). Potassium thiocyanate is subjected to polymorphous conversion at 143° (Ref 2). Sodium thiocyanate has, according to data in publications (Ref 2), no polymorphous conversion. The investigation carried out by one of the authors (Ref 3) showed that polymorphism occurs in butyrates. Thus sodiumbutyrate suffers a conversion at 117, 232, 252 and

Card 1/3

Reversible Mutual System of Butyrates and Sodium- SOV/ 79-28-6-51/63
-and Potassiumthiocyanates

360°, and the potassium butyrate at 190, 280, 285 and 345°. The whole investigation was carried out according to the visual-polythermal method as generally used. All compositions in molar per cents, together with formation temperatures of the first crystals are given (Tables 1 - 3). The liquidus curves (likvidus) of the double system $C_3H_7COONa-C_3H_7COOK$ and $KCNS-C_3H_7COOK$ were plotted. With an increase of the number of carbon atoms in the salt radical also the degree of reversibility in such systems increases which had been formed of the fatty acid salt of sodium- and potassium thiocyanates. There are 6 figures, 4 tables, and 6 references, 6 of which are Soviet.

ASSOCIATION: Smolenskiy meditsinskiy institut (Smolensk Medical Institute)

SUBMITTED: April 3, 1957

Card 2/3

Reversible Mutual System of Butyrates and Sodium- SOV/9-28-6-57/63
-and Potassiumthiocyanates

1. Sodium thiocyanates--Chemical reactions 2. Potassium thiocyanates--Chemical
reactions

Card 3/3

AUTHORS: Tsindrik, N. M., Sokolov, N. M. SOV/79-28-7-3/64

TITLE: Ternary Mutual System of Butyrates and Nitrates of Lithium and Sodium (Troynaya vzaimnaya sistema iz butiratov i nitratov litiya i natriya)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol. 28, Nr 7, pp. 1728 - 1733 (USSR)

ABSTRACT: The present investigation was carried out to determine the direction of the conversion reaction in melts of butyrates and nitrates of lithium and sodium. It is of interest to compare this system to the earlier investigated ones of formiates, acetates, propionates of lithium and sodium, and the nitrates of the same metals. The surface of the molten systems in a still liquid state was investigated according to the visual-polythermal method. A nickel-chromium thermocouple and a millivoltmeter were used for the determination of the temperature, where the first crystals appeared. The butyrates of lithium and sodium were obtained by the addition of excess butyric acid to their carbonates and by a subsequent evaporation (Ref 1). The dry salts obtained were purified by recrystallization of butanol. The

Card 1/3

Ternary Mutual System of Butyrates and Nitrates of
Lithium and Sodium

SOV/79-28-7-3/64

melting points of the system components were: LiNO_3 - 256° , NaNO_3 - 308° , $\text{C}_3\text{H}_7\text{COOLi}$ - 329° , $\text{C}_3\text{H}_7\text{COONa}$ - 330° . With NaNO_3 a polymorphous transformation was found at 275° , with $\text{C}_6\text{H}_7\text{COONa}$ at 117 , 232 , 252 and 316° (Ref 2). The investigation of the molten ternary mutual system of butyrates and nitrates of lithium and sodium is new. The data on the two double systems LiNO_3 - $\text{C}_3\text{H}_7\text{COOLi}$ and $\text{C}_3\text{H}_7\text{COOLi}$ - $\text{C}_3\text{H}_7\text{COONa}$ are described for the first time (Ref 7). The dependence of the chemical dislocation of equilibrium in the series of the systems of formiates, acetates, propionates and butyrates with nitrates of lithium and sodium on the number of carbon atoms in the radical of the fatty acid was determined. There are 7 figures, 3 tables, and 5 references, 5 of which are Soviet.

Card 2/3

Ternary Mutual System of Butyrates and Nitrates of
Lithium and Sodium

SOV/79-28-7-3/64

ASSOCIATION: Smolenskiy gosudarstvennyy meditsinskiy institut (Smolensk
State Medical Institute)

SUBMITTED: September 6, 1957

- | | |
|---|--|
| 1. Lithium nitrates--Chemical reactions | 2. Sodium nitrates |
| Chemical reactions | 3. Lithium butyrates--Chemical reactions |
| 4. Sodium butyrates--Chemical reactions | 5. Metalorganic |
| compounds--Properties | |

Card 3/3

AUTHORS: Dmitrevskaya, O. I., Sokolov, N. M. SOV/79-28-11-3/55

TITLE: Ternary Reciprocal System of Propionates and Nitrates of Sodium and Potassium (Troynaya vzaimnaya sistema iz propionatov i nitratov natriya i kaliya)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol 28, Nr 11, pp 2920-2926 (USSR)

ABSTRACT: In the earlier investigated systems of formiates and nitrates of sodium and potassium (Ref 1) as well as in the system of acetates and nitrates of the same metals (Refs 2,3) the direction of the reaction agrees with the conditional thermochemical effect of the reaction, with the degree of irreversibility in the acetate system being higher than in the formiate system. The present system is a further member in the series of these systems. The propionates are little investigated as compared to formiates and acetates. The determination of their heat of formation (Ref 4) is lacking. Therefore, the comparison of the results of the present system can be carried out only with respect to the quantity of the paraffin part in the melts of the process taking place. The melting points and the presence of the polymorphic

Card 1/3

Ternary Reciprocal System of Propionates and Nitrates SOV/79-28-11-3/55
of Sodium and Potassium

transformations for the nitrates were determined by several scientists; the same data were obtained also for propionates by one of the authors. The ternary reciprocal system $\text{Na, K} \parallel \text{C}_2\text{H}_5\text{COO, NO}_3$ as well as for the first time the double system $\text{C}_2\text{H}_5\text{COOK-KNO}_3$ were investigated. The reaction of the reaction cleavage in the reciprocal system dominates over the complex formation. The formation of solid solutions on the stable diagonal line $\text{C}_2\text{H}_5\text{COONa-KNO}_3$ was found, which fact is opposed to the theory of isomerism, and demands further investigations. The system $\text{Na, K} \parallel \text{C}_2\text{H}_5\text{COO, NO}_3$ is classified as an irreversible, reciprocal system with a stable diagonal line. The influence of the atomic number of carbon on the degree of irreversibility of the reaction between the potassium salt and fatty acid and sodium nitrate was explained. There are 8 figures, 2 tables, and 17 references, 12 of which are Soviet.

Card 2/3

Ternary Reciprocal System of Propionates and Nitrates SOV/79-28-11-3/55
of Sodium and Potassium

ASSOCIATION: Smolenskiy gosudarstvennyy meditsinskiy institut
(Smolensk Medical State Institute)

SUBMITTED: September 5, 1957

Card 3/3

KAZANSKIY, B.A.; LUKINA, N.Yu.; NAKHAPETYAN, L.A.; ZOPOVA, S.V.;
LOZA, G.V.; SHATENSHEYN, G.A.; OVODOVA, V.A.; UVAROV, O.V.;
SOKOLOV, N.M.; SMOL'NIKOV, V.P.

Production of high purity cyclopropane. Khim. prom. no. 6:462-
465 S '60. (MIRA 13:11)

(Cyclopropane)

5.4200

77343
SOV/79-30-1-4/78

AUTHORS: Dmitriyevskaya, O. I., Sokolov, N. M.

TITLE: Ternary Interacting System of Sodium- and Potassium Isobutyrate and Nitrates

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol 30, Nr 1, pp 20-25 (USSR)

ABSTRACT: The known experimental data on various ternary interacting systems leave an impression that heteroionic compounds occur when an aliphatic acid with a branched carbon chain is one of the components. The other components can be represented by any Na or K salts. The authors seek to substantiate this concept. They carried out experiments using recrystallized and chemically pure samples of commercial Na and K nitrates and isobutyrate. The mp of NaNO_3 , KNO_3 , $\text{iso-C}_3\text{H}_7\text{COONa}$, and $\text{iso-C}_3\text{H}_7\text{COOK}$ are 308° , 337° , 260° , and 356° C, respectively. The first compound undergoes phase

Card 1/7

Ternary Interacting System of Sodium- and
Potassium Isobutyrate and Nitrates

77343
SCV/79-30-1-4/78

transition in solid state at 270°C ; the second at 124° and 316°C ; the third at 67° , 91° , and 220°C , and the fourth at 208° , 273° and 348°C . Binary systems NaNO_3 - $\text{iso-C}_3\text{H}_7\text{COONa}$; $\text{iso-C}_3\text{H}_7\text{COONa}$ - $\text{iso-C}_3\text{H}_7\text{COOK}$; and NaNO_3 - KNO_3 are known. The pair, $\text{iso-C}_3\text{H}_7\text{COOK}$ - KNO_3 , studied for the first time, proved to form a heteroionic compound of $\text{iso-C}_3\text{H}_7\text{COOK}\cdot\text{KNO}_3$ composition when mixed at intermediate ratios (Fig. 1). Heteroionic compounds are also formed in binary systems KNO_3 - $\text{iso-C}_3\text{H}_7\text{COONa}$ and NaNO_3 - $\text{iso-C}_3\text{H}_7\text{COOK}$ which represent diagonals in the state diagram (Figs. 3 and 8) of four component systems. Besides the binary systems, 16 ternary sections, denoted in Fig. 3 by Roman numerals, were studied, and their solubility curves and invariant points were found. The four-component diagram of Fig. 8, based on these data, shows the solid-liquid equilibrium surface, divided into 6 areas, within which 6 solids of different compositions crystallize, 4 monoc- and 2 heteroionic.

Card 2/7

Ternary Interacting System of Sodium- and
Potassium Isobutyrate and Nitrates

7743

SOV/79-30-1-4/78

The central area seems to correspond to $\text{iso-C}_3\text{H}_7\text{COONa} \cdot \text{KNO}_3$ composition. The 10 ternary eutectic curves in the diagram mean equilibrium of 2 solid phases and the liquid. The curves intersect at 4 invariant eutectic points E_1 , E_2 , E_3 , E_4 and 1 transitional point P at which the following groups of solid phases crystallize, respectively: (1) $\text{iso-C}_3\text{H}_7\text{COONa} \cdot \text{KNO}_3$, $\text{iso-C}_3\text{H}_7\text{COOK}$, and $\text{iso-C}_3\text{H}_7\text{COONa}$ at the ratio $\text{iso-C}_3\text{H}_7\text{COONa}:\text{iso-C}_3\text{H}_7\text{COOK}:\text{KNO}_3 = 62.5:17.5:20\%$; (2) $\text{iso-C}_3\text{H}_7\text{COONa} \cdot \text{KNO}_3$, $\text{iso-C}_3\text{H}_7\text{COOK}$ and $\text{iso-C}_3\text{H}_7\text{COOK} \cdot \text{KNO}_3$ at the ratio $\text{iso-C}_3\text{H}_7\text{COONa}:\text{iso-C}_3\text{H}_7\text{COOK}:\text{KNO}_3 = 14.5:47.5:38\%$; (3) $\text{iso-C}_3\text{H}_7\text{COONa} \cdot \text{KNO}_3$, NaNO_3 , and KNO_3 at the ratio $\text{iso-C}_3\text{H}_7\text{COONa}:\text{NaNO}_3:\text{KNO}_3 = 18.5:39.5:42\%$; (4) $\text{iso-C}_3\text{H}_7\text{COONa} \cdot \text{KNO}_3$, NaNO_3 and $\text{iso-C}_3\text{H}_7\text{COONa}$ at the ratio $\text{KNO}_3:\text{NaNO}_3:\text{iso-C}_3\text{H}_7\text{COONa} = 20.5:21:58.5\%$; (5) $\text{iso-C}_3\text{H}_7\text{COONa} \cdot \text{KNO}_3$, NaNO_3 , and

Card 3/7

Ternary Interacting System of Sodium- and
Potassium Isobutyrate and Nitrates

77343
SOV/79-30-1-4/78

iso-C₃H₇COOK·KNC₃ at the ratio iso-C₃H₇COONa:
iso-C₃H₇COOK:KNC₃ = 11:44:45%. There are 8 figures;
2 tables; and 10 references, 9 Soviet, 1 U.S. The
U.S. reference is: F. O. Krachek, J. Am. Chem. Soc.,
53, 2607, 1931.

ASSOCIATION: Smolensk State Medical Institute (Smolenskiy gosudar-
stvennyy meditsinskiy institut)

SUBMITTED: January 7, 1959

Card 4/7

SOKOLOV, N.M.; POCHTAKOVA, E.I.

Adiagonal reciprocal ternary system of sodium and potassium
butyrates and acetates. Zhur.ob.khim. 30 no.5:1401-1405
My '60. (MIRA 13:5)

1. Smolenskiy meditsinskiy institut.
(Butyric acid) (Acetic acid)

SOKOLOV, N.M.; POCHTAKOVA, E.I.

Reciprocal ternary system of sodium and potassium isobutyrate
and acetates. Zhur.ob.khim. 30 no.5:1405-1410 My '60.
(MIRA 13:5)

1. Smolenskiy meditsinskiy institut.
(Isobutyric acid) (Acetic acid)

SOKOLOV, N.M.; MINICH, M.A.

Liquidus curve in the binary systems formed by molten potassium salts of fatty acids and potassium nitrite. Zhur.neorg.khim. 6
no.11:2558-2562 '61. (MIRA 14:10)

1. Smolenskiy gosudarstvennyy meditsinskiy institut, kafedra
neorganicheskoy i analiticheskoy khimii.
(Potassium salts) (Systems (Chemistry))

SOKOLOV, N.M.; TSINDRIK, N.M.; DMITREVS KAYA, O.I.

Layering in ternary reciprocal systems consisting of salts of
organic and inorganic acids. Zhur. o.b khim. 31 no.4:1051-
1056 Ap '61. (MIRA 14:4)

1. Smolenskiy meditsinskiy institut.
(Systems (Chemistry))

43783

G/025/62/000/004-5/004/005
1041/1241

11.3600
AUTHORS:

Uvarov, O.V., Sokolov, N.M., and Zavosonokov, N.M.

TITLE:

Physico-chemical constants of H_2O^{18}

PERIODICAL: Kernenergie, no.4-5, 1962, 323-329

TEXT: The elementary separation factor for the system H_2O^{16} - H_2O^{18} in the temperature range from 20-210°C was determined by a differential vapour pressure measurement method. The results are given by the formula $\alpha = 0.9835 \exp(7.598/T)$. From these results one calculates the difference in latent heat of evaporation of the two water species as 14.98 cal/mole and the boiling point of pure H_2O^{18} at atmospheric pressures as 100.13°C. The refractive index difference - Δn - between light and heavy water was measured at 20°C with the results: $\Delta n = 3.4 \cdot 10^{-4}$. The temperature coefficient of the refractive index difference between 10°-30°C was found to be

Card

Card 1/2

UVAROV, O.V.; SOKOLOV, N.M.; LYAPIN, V.V.; ZHAVORONKOV, N.M.

Coefficients of separation of the carbon isotopes C^{12} - C^{14}
during the equilibrium vaporization of methane. Zhur. VKHO
7 no.6:695-697 '62. (MIRA 15:12)

1. Nauchno-issledovatel'skiy fiziko-tekhnicheskiy institut
imeni L.Ya. Karpova.

(Methane)
(Carbon--Isotopes)
(Evaporation)

43470

S/076/62/036/012/005/014
B101/B180

11 240

AUTHORS: Uvarov, O. V., Sokolov, N. M., and Zhavoronkov, N. M. (Moscow)

TITLE: Physical and chemical constants of heavy oxygen water

PERIODICAL: Zhurnal fizicheskoy khimii, v. 36, no. 12, 1962, 2699 - 2706

TEXT: Water containing ~47% H_2O^{18} and up to 60% D_2O was purified, and the D_2O content was reduced to 0.016 mole% with reduced heated metallic hot iron. The following physicochemical constants were determined: (A) The H_2O^{16} - H_2O^{18} separation coefficient α by a differential method similar to that used by W. H. Keesom, J. Haantjes (Physica, 2, 986, 1935) for separating neon isotopes. Result: between 20 and 210°C, $\log \alpha = 3.300/T - 0.00722$ which is in good agreement with data obtained by other researchers, $\alpha_{100^\circ C} = 1.0038$. The difference in heats of vaporization is 14.97 cal/mole, the boiling point of H_2O^{18} at 760 mm Hg is 100.13°C. (B) The refractive index was determined with an interferometer. $\Delta n = 0.00034N_{H_2O^{18}}$ holds for

Card 1/2

Physical and chemical ...

S/076/62/036/012/005/014
B101/B180

white light at 20°C; $N_{H_2O^{18}}$ is the molar part of H_2O^{18} in the mixture.

Between 10 and 30°C, the temperature coefficient of the difference in refractive indices of H_2O^{16} and H_2O^{18} is $(1.18 - 1.20) \cdot 10^{-6}$. (C) The water density was determined pycnometrically for different H_2O^{18} contents.

Results: $d_4^t = A + 0.001070 N_{H_2O^{18}}$, where $A = 0.99720$ at 25°C, 0.99580 at 30°C, and 0.99230 at 40°C. At 25°C, the density of 100% H_2O^{18} is 1.10724 with respect to river water. There are 3 figures and 5 tables. The most important English-language references are: S. Sakata a. N. Morita, Bull. Chem. Soc. Japan, 29, 284, 1956; H. E. Watson, J. Amer. Chem. Soc., 76, 5884, 1954.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physico-chemical Institute imeni L. Ya. Karpov)

SUBMITTED: June 23, 1961

Card 2/2

SOKOLOV, N.M.; UVAROV, O.V.

"Betrachtung einiger Methoden zur Bestimmung der Koeffizienten der relativen Fluchtigkeiten stabiler Isotope."

Third Working Conference on Stable Isotopes, 28 October to 2 November 1963, Leipzig.

UVAROV, O.V.; SOKOLOV, N.M.

Effect of the evaporation conditions on the value of the partition
factor α in the course of Raleigh distillation. Zhur. fiz. khim. 38
no.7:1863-1864 J1 '64. (MIRA 18:3)

(A) L 12140-66 EWT(m) RM

ACC NR: AP6000455

SOURCE CODE: UR/0064/65/000/009/0022/0023

AUTHOR: ^{44.55} Sokolov, N. M.; ^{44.55} Nakhapetyan, L. A.; ^{44.55} Fomichev, A. V.; ^{44.55} Livshits, S. Ya.;
Chirtsov, V. I.; ^{44.55} Kasimov, R. G.; ^{44.55} Lukina, M. Yu.; ^{44.55} Zhavoronkov, N. M.

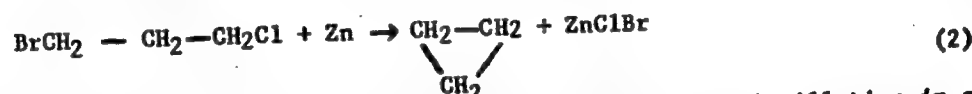
ORG: None

TITLE: Experimental industrial preparation of pharmacopoeial cyclopropane

SOURCE: Khimicheskaya promyshlennost', no. 9, 1965, 22-23

TOPIC TAGS: cyclopropane, organic synthetic process, cyclic group, pharmaceutical, propane

ABSTRACT: ^{44.55} Pharmacopoeial cyclopropane was synthesized via the following steps: (1)
 $\text{CH}_2=\text{CH}-\text{CH}_2\text{Cl} + \text{HBr} \rightarrow \text{BrCH}_2-\text{CH}_2-\text{CH}_2\text{Cl}$



In the third step, propylene and other impurities are removed by distillation in a packed tower. The operation of the experimental industrial assembly used in this process is described and its diagram is given. The reactor for the synthesis of cyclopropane is also illustrated. The propylene content of cyclopropane was

UDC: 661.715.4:547.512

L 12140-66
ACC NR: AP6000455

determined by gas-liquid chromatography with a thermal conductivity detector, and the cyclopropane obtained was found to meet the specified requirements. The study permitted the refinement of certain parameters of the process by which cyclopropane is produced at the various stages, and improved the flowsheet of the synthesis considerably. Orig. art. has: 3 figures.

SUB CODE: 07 / SUBM DATE: 00 / ORIG REF: 005

HW
Card 2/2

BOGOLUB, A.M.; TERKHAPETIAN, I.A.; FOMICHEV, A.V.; LIVSHITS, S.Ya.;
CHIRTSOV, V.I.; KASIMOV, R.G.; LUKINA, M.Yu.; ZHAVORONKOV, N.M.

Experimental industrial production of pharmacopoeial cyclopropane.
Khim. prom. 42 no.9:661-663 S '65. (MIRA 18:9)

SOKOLOV, N.M. (Gadyach)

Technic in intrabronchial administration of drugs. Vest.oto.-rin.
20 no.4:106 J1-Ag '58 (MIRA 11:7)
(INJECTIONS, BRONCHIAL)

SOKOLOV, N.M.

Diagnostic significance of an examination of bronchial irrigation
waters used in pulmonary tuberculosis under sanatorium conditions.
Vrach. delo no.1:89 '59. (MIRA 12:4)

1. Gadyachskiy klinicheskiy sanatoriy.
(TUBERCULOSIS--DIAGNOSIS)

SOKOLOV, N.M.

Intratracheal use of antibiotics in the compound treatment of
tuberculosis of the trachea, bronchi, and lungs. Vrach. delo
no.5:145-146 My '61. (MIRA 14:9)
(ANTIBIOTICS) (TUBERCULOSIS)